

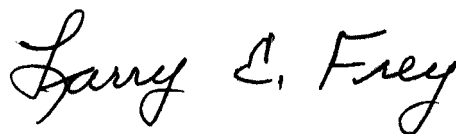
UNITED STATES DEPARTMENT OF AGRICULTURE
Oregon State Farm Service Agency
7620 SW Mohawk Street
Tualatin, Oregon 97062-8121

OR Notice CRP-62

For: Oregon County Offices

Signup 26 Seeding And Planting Mixtures

Approved by: Larry Frey, State Executive Director



1 Overview

A Background

For Signup 26, FSA is responsible for making routine technical determinations needed for signup purposes, such as soil type acreage and rental rates. FSA will also work with the producer to determine which practice they want to install on the offered acreage and what to plant.

B Purpose

To provide COFs with recommended planting mixtures and tree species for wildlife benefit.

The planting mixtures will be provided for Eastern (Exhibit 1) and Western (Exhibit 2) Oregon in the exhibits of this notice.

Additional mixtures or species can be used on recommendation of NRCS, ODF, or ODFW, as documented in the CRP program files.

Disposal:

October 1, 2003
5/12/2003

Distribution:

All Oregon COFs

Recommended Planting Mixtures for Eastern Oregon

Seeding mixture alternatives are generally given for each use within a precipitation zone. The mixtures are designated A, B, C. The species and minimum seeding rates in pounds of pure live seed per acre for a mixture are determined by reading down the column beneath each letter.

Note: Not all possible seeding/planting mixtures are provided in the Guide. Consideration of other plant species or use of a single species may be justified for some conservation practices. All seeding recommendations are the drilled rate, broadcast rates are double drilled rate.

Seeding rates are given in pounds of pure live seed (PLS) per acre. PLS Seeding Rate is determined by multiplying the percent purity times the percent germination of the seed.

$$\text{Bulk Seeding Rate} \times \% \text{ purity (in decimal)} \times \% \text{ germination (in decimal)} = \text{PLS Seeding Rate}$$

The purity and germination percentages are obtained from the tag that comes on each bag or container of seed.

These plant communities are designed considering the natural landscape mosaic of the native plants (trees, shrubs, forbs and grasses). The intent of these plantings is primarily for wildlife habitat, not to maximize tree/wood production or livestock forage. There is no requirement for plants in wildlife plantings to be placed in orderly, uniform-spaced rows or blocks.

In most cases, the natural plant community will consist of randomly spaced clumps or groupings of shrubs and/or trees with the surrounding areas seeded to herbaceous plants (grasses, sedges, and forbs). A clump of shrubs shall consist of at least seven plants. A clump of trees shall consist of at least three plants.

See the effective precipitation section for the rainfall requirements of conservation plants and select plants to suit the ecological site and wildlife species.

Spacing between plants in clump plantings:

- Small shrubs (<9 feet at maturity) 3 feet apart (at 33% coverage, 1600 plants/acre)
- Medium – tall shrubs (9-15 feet) 4 feet apart (at 33% coverage, 900 plants/acre)
- Small trees (<40 feet) 8 feet apart (at 33% coverage, 680 plants/acre)
- Medium – tall trees (>40 feet) 10 feet apart (at 33% coverage, 150 plants/acre)

Recommended Planting Mixtures for Eastern Oregon

A. Upland Wildlife – Eastside 1

1. Plants for Wildlife Cover

<u>Species</u>	<u>Single Species Seeding PLS</u> <u>lbs/ac</u>	(seeds/sq. ft.)
tall wheatgrass (I)	10	20
basin wildrye (N)	7	27
Idaho fescue (N)	6	84
Bluebunch wheatgrass (N)	7	22
Blue wildrye (N)	8	24
Orchardgrass (I)	6	72
Hairy vetch (I)	30	12
White clover (I)	2	36

		<u>Spacing of plants</u>
Western clematis (N)	Seedlings/transplants	3 ft
Big sagebrush (N)	Seedlings/transplants	3 ft
Bitterbrush (N)	Seedlings/transplants	3 ft
Common snowberry (N)	Seedlings/transplants	3 ft
Caragana (I)	Seedlings/transplants	4 ft
Western chokecherry (N)	Seedlings/transplants	4 ft
Mockorange (N)	Seedlings/transplants	4 ft
Serviceberry (N)	Seedlings/transplants	4 ft
Oceanspray (N)	Seedlings/transplants	4 ft
Rocky Mountain juniper (N)	Seedlings/transplants	8 ft
Ponderosa pine (N)	Seedlings/transplants	10 ft
Douglas fir (N)	Seedlings/transplants	10 ft
Western larch (N)	Seedlings/transplants	10 ft
Lodgepole pine (N)	Seedlings/transplants	10 ft
Austrian pine or Scotch pine (I)	Seedlings/transplants	8 ft
Blue spruce (I)	Seedlings/transplants	10 ft
Mountain willow (S.scouleriana)(N)	Unrooted or rooted cuttings or poles	4 ft

Recommended Planting Mixtures for Eastern Oregon**2. Wildlife Upland Food, eastside – seeds and fruit**

<u>Species</u>	<u>Single Species Seeding (lbs/ac)</u>
Wheat or barley (I)	60
Corn (I)	15
Millet, grain or sudangrass (I)	20
Basin wildrye (N)	7
Indian ricegrass (N)	5
Alfalfa (I)	8
Blue flax (I)	6
Hairy vetch (I)	30
Common vetch (I)	30
Buckwheat (I)	35
Sunflower, annual	12
Forbs/legumes (native species such as western yarrow)	Varies with species

		<u>Spacing</u>
Black hawthorn (N)	Seedlings/transplants	4 ft
Blue elderberry (N)	Seedlings/transplants	8 ft
Serviceberry (N)	Seedlings/transplants	4 ft
Western chokecherry (N)	Seedlings/transplants	4 ft
Woods' rose (N)	Seedlings/transplants	3 ft
Highbush cranberry (N)	Seedlings/transplants	4 ft
Common snowberry (N)	Seedlings/transplants	4 ft
Western mountain-ash (N)	Seedlings/transplants	4 ft
Kinickkinick (N)	Seedlings/transplants	3 ft

3. Wildlife Upland Forage – green leaves (herbage)

<u>Species</u>	<u>Single Species Seeding (lbs/ac)</u>
Alfalfa (I)	8
Red clover (I)	4
Ladino or Alsike clover (I)	2
Yellow sweetclover (I)	2
Small burnet (I)	12
Forbs/legumes (native species)	Varies

Recommended Planting Mixtures for Western Oregon

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Spacing between plants in clump plantings:

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- Medium – tall shrubs (9-15 feet) 4 feet apart (at 33% coverage, 900 plants/acre)
- Small trees (<49 feet) 8 feet apart (at 33% coverage, 680 plants/acre)
- Medium – tall trees (>40 feet) 10 feet apart (at 33% coverage, 150 plants/acre)
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Recommended Planting Mixtures for Western Oregon

A. Upland Wildlife – Westside 1)

1. Plants for Wildlife Cover

<u>Species</u>	<u>Single Species Seeding</u> <u>(lbs/ac)</u>	<u>PLS seeds/sq ft</u>
Red fescue (I or N)	6	84
Roemer's fescue (N)	6	80
Blue wildrye (N)	8	24
Orchard grass (I)	6	72
Hairy vetch or common vetch (I)	30	12
White clover (I)	2	36
Average spacing between plants		
Salmonberry (N)	Seedlings/transplants	3 ft
Pacific ninebark (N)	Seedlings/transplants	3 ft
Oceanspray (N)	Seedlings/transplants	4 ft
Common snowberry (N)	Seedlings/transplants	3 ft
Black twinberry (N)	Seedlings/transplants	4 ft
Mockorange	Seedlings/transplants	4 ft
Osoberry (N)	Seedlings/transplants	4 ft
Western serviceberry (N)	Seedlings/transplants	4 ft
Red alder	Seedlings/transplants	10 ft
Oregon ash	Seedlings/transplants	10 ft
Black cottonwood	Seedlings/transplants	10 ft
Bigleaf maple	Seedlings/transplants	10 ft
California laurel (Myrtlewood)	Seedlings/transplants	10 ft
Pacific madrone (N)	Seedlings/transplants	8 ft
Oregon black oak	Seedlings/transplants	10 ft
Oregon white oak (N)	Seedlings/transplants	10 ft
Mountain or western hemlock (N)	Seedlings/transplants	10 ft
Douglas fir (N)	Seedlings/transplants	10 ft
Grand fir	Seedlings/transplants	10 ft
Sitka spruce (N)	Seedlings/transplants	10 ft
Jeffrey pine	Seedlings/transplants	10 ft
Ponderosa pine	Seedlings/transplants	10 ft
Sugar pine	Seedlings/transplants	10 ft
Valley Ponderosa pine	Seedlings/transplants	10 ft
Shore pine (N)	Seedlings/transplants	8 ft
Scotch pine (I)	Seedlings/transplants	8 ft
Incense cedar	Seedlings/transplants	10 ft
Port-Orford cedar	Seedlings/transplants	10 ft
Western redcedar (I)	Seedlings/transplants	10 ft
Mountain willow (S. scouleriana) (N)	Unrooted or rooted cuttings or poles	4 ft

Recommended Planting Mixtures for Western Oregon**2. Wildlife Upland Food, Westside - seeds and fruit**

<u>Species</u>	<u>Single Species Seeding</u> <u>(lbs/ac)</u>	
Cereal grain (I)	60	
Corn (I)	15	
Millet, grain or sudangrass (I)	20	
Alfalfa (I)	8	
White clover (I)	2	
Hairy vetch	30	
Common vetch (I)	30	
Buckwheat (I)	35	
Sunflower, annual	12	
Forbs/legumes (native species)	Varies with species	
Black hawthorn (N)	Seedlings/transplants	4 ft
Blue or red elderberry (N)	Seedlings/transplants	8 ft
Pacific crabapple (N)	Seedlings/transplants	8 ft
Western hazelnut (N)	Seedlings/transplants	4 ft
Western serviceberry (N)	Seedlings/transplants	4 ft
Western chokecherry (N)	Seedlings/transplants	4 ft
Oregon viburnum (N)	Seedlings/transplants	4 ft
Woods' rose (N)	Seedlings/transplants	3 ft

3. Wildlife Upland Forage--green leaves (Herbage)

<u>Species</u>	<u>Single Species Seeding</u> <u>lbs/ac</u>	
Alfalfa (I)	8	
red clover (I)	4	
ladino or Alsike clover (I)	2	
Small burnet (I)	12	
Blue wildrye (N)	10	
Forbs/legumes (native species)	Varies	